

Submission to Congress: Subjects Planned for the 2020 Census and American Community Survey (ACS)

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Decennial Census Management Division

Subjects Planned for the 2020 Census and ACS

Background

Title 13 requires that the Census Bureau deliver to Congress:

- Subjects proposed for the decennial census program by March 31, 2017
- Questions proposed for the decennial census program by March 31, 2018

The Census Bureau will submit the subjects and questions included on the ACS and 2020 Census jointly

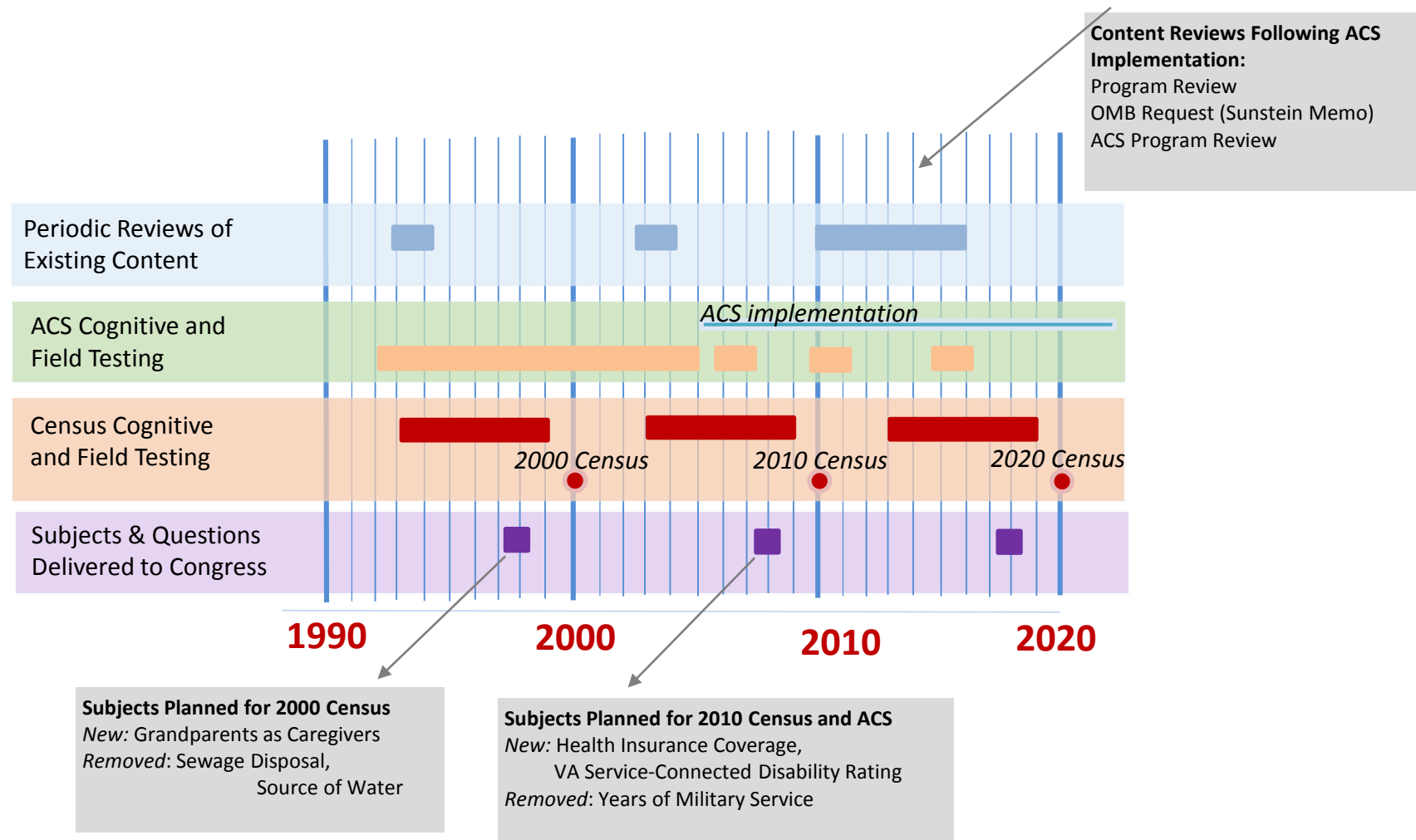
Working with our federal counterparts, we have engaged in a robust process to validate existing content and determine new content needs

- 2020 Decision Memo (No. 2016.05) about submission development posted April 29, 2016
- Letters to federal agencies requesting updates to uses on April 29, 2016
- Incorporating agency updates into draft documentation

Submissions will be delivered to Congress, and posted on ***census.gov***.

Subjects Planned for the 2020 Census and ACS

Decennial Census Content Determination Process



Content Updates

Planned Activities and Timeline

Activity	Date	
Invite Federal Agencies to Provide Updates to Federal Use Documentation	March 2016—June 2016	✓
Incorporate Feedback	May 2016—September 2016	✓
Develop Subject Submission	October 2016—December 2016	✓
Provide Updates and Conduct Briefings	January 2017—March 2017	
Subjects Planned document available	No later than March 31, 2017	
Provide Updates and Conduct Briefings	January 2018—March 2018	
Questions Planned document available	No later than March 31, 2018	
Federal Register notice Public Comment Period I	May 2018—July 2018	
Federal Register notice Public Comment Period II	August 2018—September 2018	
Submit Information Collection Request to OMB	September 2018	

Subjects Planned for the 2020 Census and ACS

Document Outline

Contents:

- Introduction
- Subjects Planned for the 2020 Census and ACS
- Subjects Planned for the ACS
- New Subjects Planned (if applicable)

Structure:

- One page (front and back) per proposed subject, using plain language
- Year First Included in a Decennial Census or on the ACS
- Statement about why the question is asked (relationship to published data)
- Paragraph summarizing federal government use of data derived from the questions in each subject
- Select summaries of types of community-level uses of each
- Select statutory uses (prioritized by mandatory, then required, then programmatic)

Subjects Planned for the 2020 Census and ACS

Example Subject: Age, asked since 1790

Age and date of birth questions are used to understand the size and characteristics of different age groups and to present other data by age. Age data are used in planning and funding government programs that provide funds or services for specific age groups, such as children, working-age adults, women of childbearing age, or the older population. These statistics are also used to enforce laws, regulations, and policies against age discrimination in government programs and in society.

Age Data Help Communities:

- Provide Assistance to Older Americans
- Provide Assistance to Children and Families
- Educate Children and Adults
- Ensure Equal Opportunity

Subjects Planned for the 2020 Census and ACS

Companion Web Content

- Subjects document will be available at ***census.gov***
- A new series of webpages will explain the ACS subjects:
 - Questions
 - FAQs
 - Example data
 - Infographics
 - Videos
 - Community Uses

U.S. Department of Commerce | Blogs | Index A-Z | Glossary | FAQs

United States Census Bureau

Topics: Population, Economy | Geography: Maps, Products | Library: Infographics, Publications | Data: Tools, Developers | Surveys/Programs: Respond, Survey Data | Newsroom: News, Blogs | About Us: Our Research

Search

American Community Survey **Prototype**

[Back to Topics Table](#)

Why We Ask Questions About... Commuting / Journey to Work

We ask questions about where people work, how they get there, when they leave, and how long it takes, to create statistics about commuting, or a person's journey to work.

Commuting patterns and characteristics are crucial to planning for improvements to road and highway infrastructure, developing transportation plans and services, and understanding where people are traveling in the course of a normal day.



Your Privacy Concerns

"I Don't Want Everyone to Know What Time I Leave"

We use your confidential survey answers to create statistics like those in the results below and in the full tables that contain all the data — no one would be able to figure out your survey answers from the statistics we produce. The Census Bureau is legally bound to strict confidentiality requirements. Individual records are not shared with anyone, including federal agencies and law enforcement entities. By law, the Census Bureau cannot share respondents' answers with anyone, -- not the IRS, not the FBI, not the CIA, and not with any other government agency.

Questions as they appear on the form

We ask 5 questions about a person's journey to work to create a profile of a community's commuting patterns.

[View Questions](#)

Questions?

Integrated Partnership & Communications

Tasha Boone

Decennial Census Management Division

2020 Census

Optimizing Internet Self-Response

Motivate
people to respond
and assure that
data are secure



Micro-
Targeted
Advertising



Tailored
Contact
Strategy



Partnership
Program



Notices
Encouraging
Self-Response

Make it easy to
respond from
any location at
any time



Multiple Modes and
Devices



Preassigned ID
Not Required*



Online Forms in
Multiple Languages

* Validate respondent addresses for those without a Census ID and prevent fraudulent submissions.

Integrated Partnership & Communications

Main Components

The Integrated Partnership and Communications operation communicates the importance of participating in the 2020 Census to the entire population of the 50 states, the District of Columbia, and United States Territories to:

- Engage and motivate people to self-respond, preferably via the Internet
- Raise and keep awareness high throughout the entire 2020 Census to encourage response



Integrated Partnership & Communications

2020 Partnership Program

- 2020 National Partnership
- 2020 Community Partnership and Engagement

Integrated Partnership & Communications

2020 National Partnership Mission

Use strategic national partnerships to increase public trust, awareness, and support of the Census Bureau's mission to accurately measure the nation's population and economy.



Sponsorship and Promotions



Message and Brand Awareness



Activities and Events



Social and Digital Engagement



Increase Response Rates



Data Use and Feedback



Policy/Advocacy

Integrated Partnership & Communications

Community Partnership and Engagement Program Objectives

Enroll community partners to increase decennial participation of those who are less likely to respond or are often missed

- **Educate** people about the 2020 Census and foster cooperation with enumerators
- **Encourage** community partners to motivate people to self-respond
- **Engage** grass roots organizations to reach out to hard to count groups and those who aren't motivated to respond to the national campaign

Integrated Partnership & Communications

Integrated Communications Contract (ICC)

Scope: To plan, design, produce, implement, and monitor an integrated communications program for the 2020 Census

Importance: Supports the 2020 Census Program's mission to conduct a complete and accurate census in 2020

- The partnership and communications program is the public face of the census
- This contract is a key foundation for a successful census - we have learned a great deal from the last two censuses and used that in planning for this contract

Integrated Communications Contract (ICC)

Contract Team

- On August 24, 2016 the Census Bureau awarded the communications contract to Young and Rubicam (Y&R)
- Y&R was the Census 2000 vendor to help the Census Bureau implement paid advertising for the first time
- Y&R brings extensive world-class marketing and communications expertise, team leadership, strategy development, dynamic creative development and execution, operational systems, and financial stewardship
- There are currently 16 contractors as part of the Y&R census team
- Indefinite Delivery, Indefinite Quantity (IDIQ)/fixed price, Period Of Performance (POP) 5 option years through 2021, ceiling \$415m
 - Base Year: August 24, 2016 – August 23, 2017
 - Option Period 1: August 24, 2017 – August 23, 2018
 - Option Period 2: August 24, 2018 – August 23, 2019
 - Option Period 3: August 24, 2019 – August 23, 2020
 - Option Period 4: August 24, 2020 – August 23, 2021
 - Option Period 5: August 24, 2021 – August 23, 2022

Integrated Communications Contract (ICC)

Team Young and Rubicam (Y&R)

Young and Rubicam (Y&R):

- **Bravo** expertise in **Hispanic in-language communications** and outreach
- **Burson-Marsteller** expertise in **earned media**
- **Hogarth** expertise **non-English language adaptation** in more than 50 languages across 200 markets
- **Maxus** executes **paid media planning and buying**
- **Penn Schoen Berland** directs a **research and analytics** approach that drives strategic recommendations and measurement
- **Wunderman** expertise in **events and promotions**

Future Partners — There will continue to be additional subcontracting opportunities throughout the census, adding more companies to the team moving forward

Subcontractors to Y&R:

- **Carol H Williams** expertise in outreach to the **black/African-American audiences**
- **Civis Analytics** expertise in predictive models and data analytics for large civic engagement campaigns
- **Culture ONE World**, expertise in the **Hispanic market** for almost every branch of the federal government and private sector corporations
- **District Communications Group** a specialist in outreach to **service members and veterans**
- **g+g Advertising** expertise in outreach to **American Indians and Native Alaskan audiences**, and a veteran of two previous decennial advertising programs
- **Kālainoku Group**, a Honolulu-based communications firm, specializing in outreach to **Native Hawaiians and Other Pacific Islanders**
- **PwC** expertise in **program management support** and managing complex government projects
- **Reingold** overall expertise in **civic engagement, digital** marketing, social media, graphic design, website development, video production, writing, and media relations.
- **TDW+Co** expertise in tailored outreach to **Asian-American populations**
- **TMP Government** expertise in **recruitment** of federal employees

Integrated Communications Contract (ICC)

Contract Milestones*

Contract Milestones	Target Date(s)	
Award Contract	August 24, 2016	✓
Kick-Off Meeting for Contract	August 31, 2016	✓
Census 101 Training	September 19 – 20, 2016	✓
Regional Office Listening Tour	November 9, 2016 – January 12, 2017	✓
Stakeholder Listening Tour	January – March 2017	
Draft of National Communications Plan for the 2020 Census	April 2017	

**All activities are contingent upon funding availability.*

Integrated Communications Contract (ICC)

Regional Office Listening Tour Top Themes

Top Five Themes:

1. Extend stakeholder engagement early and often
2. Integration of Partnership Program (local and national) into the fabric of ICC
3. Trusted Voices are key
4. Recruitment will be extremely challenging
5. Messaging is key, specifically to address the diversity within each target audience

Questions?

Field Infrastructure

Bryn Johnson

Decennial Census Management Division

Field Infrastructure

Overview

- Field Infrastructure provides program management support, direction, and funding for a variety of activities, grouped under two main operational areas:
 - Decennial Logistics Management (DLM)
 - Recruiting, Training and Onboarding (RTO)
- Field Infrastructure coordinates space acquisition for, and lease management of the Regional Census Centers (RCCs) and Area Census Offices (ACOs), provides logistics management services, and provides the administrative infrastructure for data collection operations covering the 50 states, the District of Columbia, and Puerto Rico

Field Infrastructure

Decennial Logistics Management Functions

- **Coordinate space acquisition for and lease management of the RCCs and ACOs in collaboration with Field Division (FLD) and the General Services Administration (GSA), for the 50 states, the District of Columbia, and Puerto Rico:**
 - Space acquisition and leasing
 - Build-out space (specifications, schemas, designs, etc.)
- **In collaboration with Field Division and the National Processing Center (NPC), provide logistics management support services:**
 - Procure and setup warehouse space
 - Set up offices with supplies, operating materials, non-IT equipment
 - Provision field staff with supplies
 - Inventory management
 - Kit assembly
 - Deploy materials to RCCs and ACOs
 - Receive and excess materials
 - Printing and shipping – NPC or external print vendor

Decennial Logistics Management

Major Milestones: Space and Leasing for the 2020 Census

Activity	Date	
Philadelphia RCC lease award	November 8, 2016	✓
Los Angeles, Dallas, Atlanta, New York, Chicago RCC lease awards	Pending	
RCCs Open (Philadelphia, Los Angeles, Dallas, Atlanta, New York, Chicago)	January 2018	
Early Open ACOs – Wave 1 (up to 10 ACOs)	January 2019	
Early Open ACOs – Wave 2 (up to 10 ACOs)	February 2019	
Early Open ACOs – Wave 3 (up to 10 ACOs)	March 2019	
Remaining ACOs Opening (3 waves of approximately 70 ACOs each)	September 2019	

Decennial Logistics Management

Major Milestones: Logistics for the 2020 Census

Activity	Date
Integrated Logistics Management System (ILMS) – full capabilities	Projected August 2017
Delivery of Recruiting, Administrative, Bulk Office Supply, and Training Kits to Regional Census Centers	Beginning January 2018
Delivery of Recruiting, Administrative, Bulk Office Supply, and Training Kits to Area Census Offices	Beginning January 2019

Field Infrastructure

Recruiting, Training and Onboarding (RTO)

- **Provide and manage the scope, cost, and schedule of the administrative infrastructure for data collection operations covering the 50 states, the District of Columbia, and Puerto Rico. Administrative infrastructure includes, but is not limited to:**
 - Recruiting
 - Training
 - Hiring and On-Boarding (includes recruiting, hiring and training human resources to support National Processing Center (NPC) logistics operations)
 - Personnel and Payroll Administration
 - Partnership Support
 - Management and Supervision
 - Clerical Support
 - Staff Modeling and Analysis
 - Investigative Support/Background Checks

Questions?

Census Questionnaire Assistance

Sheila Proudfoot

Decennial Contracts Execution Office

Census Questionnaire Assistance

Operational Overview

The Census Questionnaire Assistance (CQA) operation has several primary functions:

- Provides questionnaire assistance for respondents by answering questions about specific items on the census questionnaire and other frequently asked questions about the 2020 Census
 - Tier 1: Provide telephone assistance via an Interactive Voice Response (IVR)
 - Tier 2: Provide real-time assistance over the telephone or other electronic channels (Web chat and e-mail) via CQA agents
- Provides an option for respondents to complete a census interview over the telephone
- Provides outbound calling in support of census quality assurance and content coverage improvement operations
 - Quality assurance calls are to validate census enumerator's work
 - Coverage improvement calls are to fix cases that contain certain inconsistencies or ambiguities in a previously completed census questionnaire

Census Questionnaire Assistance

Contract Overview

Supported Operation	Awardee	Award Date	Contract Type	Contract Value	Period of Performance
Census Questionnaire Assistance	General Dynamics Information Technology (GDIT)	July 11, 2016	Cost Plus Award Fee	\$430,898,678	Awarded July 11, 2016 Contract structured with one base year and four option years

The 2020 CQA contract, in support of the 2020 CQA operation, is executed through a series of phases, including two major exercises prior to the 2020 Census:

- **Phase 1A**: Supports the 2017 Census Test by providing inbound phone assistance to respondents participating in the test. The testing allows for selective elements of the 2020 Census systems along with the integration between the CQA contractor's systems and those of the Census Bureau. Allows for evaluation of 2017 Census Test lessons learned for incorporation into the 2018 End-to-End Census Test Plan.
- **Phase 1B**: Supports the 2018 End-to-End Census Test by providing inbound phone/web chat/Email assistance to respondents participating in the test, as well as supporting outbound calls to verify respondent information and collect additional information for content coverage improvement. Allows an evaluation of systems and procedures to ensure that we're ready to support operations in 2020.
- **Phase 2**: Supports the 2020 Census – April 1, 2020 is Census Day

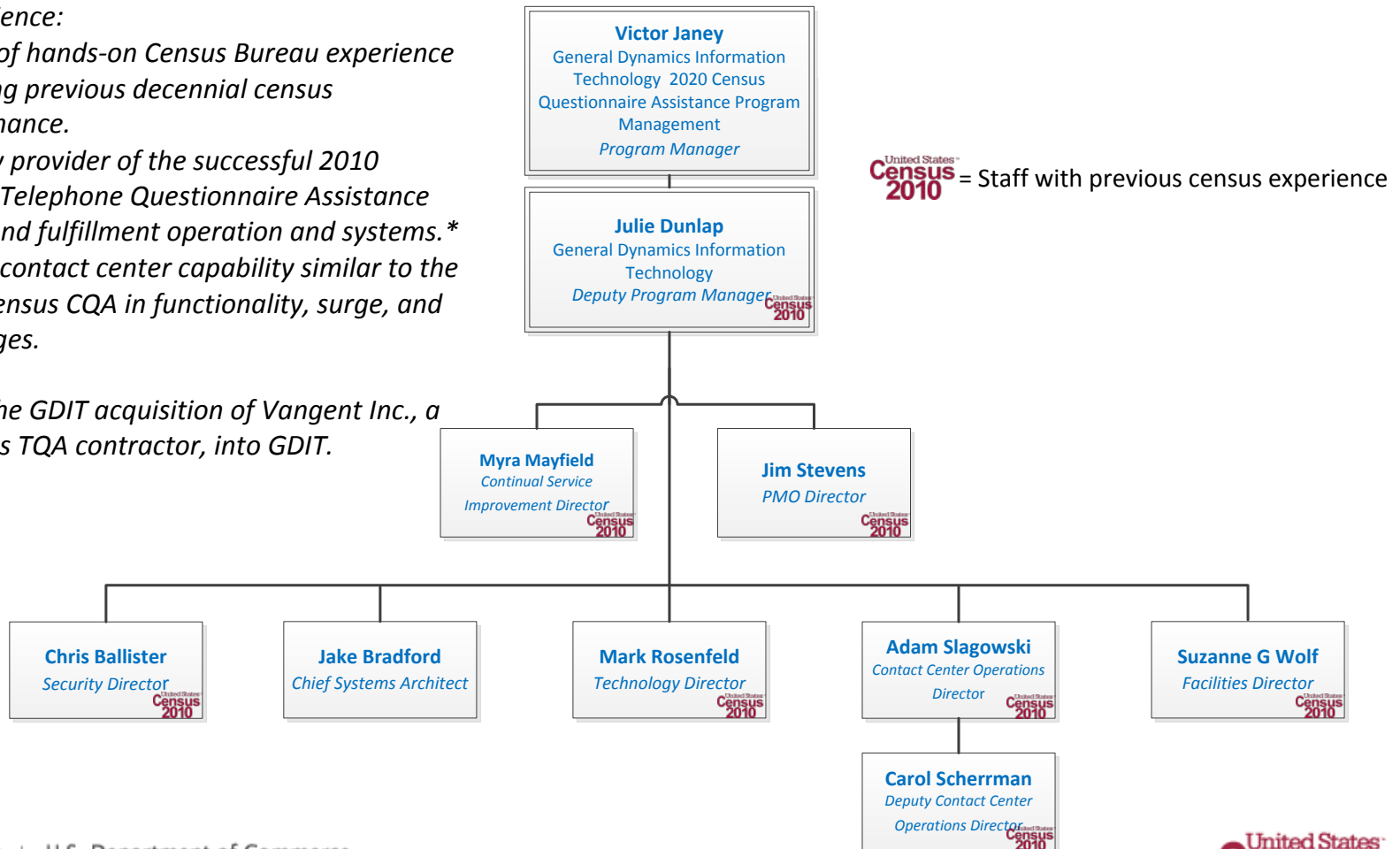
Census Questionnaire Assistance

General Dynamics Information Technology – Management Team

GDIT Experience:

- ✓ 20 yrs. of hands-on Census Bureau experience including previous decennial census performance.
- ✓ Primary provider of the successful 2010 Census Telephone Questionnaire Assistance (TQA) and fulfillment operation and systems.*
- ✓ Proven contact center capability similar to the 2020 Census CQA in functionality, surge, and languages.

*Through the GDIT acquisition of Vangent Inc., a 2010 Census TQA contractor, into GDIT.



Census Questionnaire Assistance

High-Level Contract Work Breakdown Structure

The Contract Work Breakdown Structure (CWBS) establishes the framework for performance, performance measurement, and baseline control. The CWBS forms the basis for assigning responsibilities, allocating budgets, tracking progress, and collecting and managing costs.

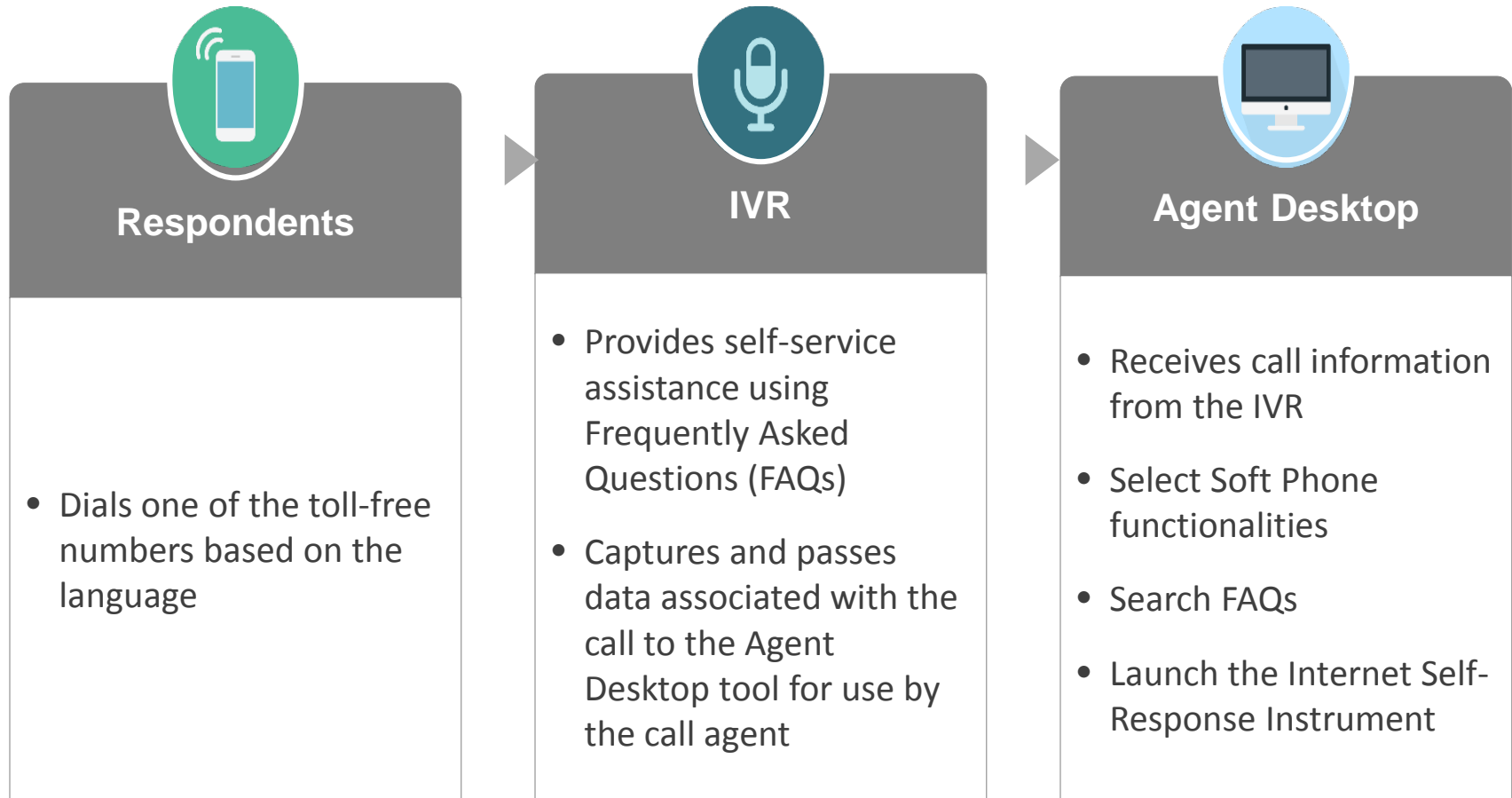
At the highest level, the CWBS is as follows:

1. Program Management
2. Architecture
3. Technology
4. Contact Center Facility Implementation Management
5. Contact Center Operations

The CQA program utilizes an “Integrated Product Team (IPT) approach.” IPT’s are weekly, collaborative meetings aligned around the CWBS. The meetings include the key subject matter staff from both the GDIT PMO and the CQA’s Government Program Management Office.

Census Questionnaire Assistance for the 2017 Census Test

Inside CQA



Census Questionnaire Assistance

Key Accomplishments To Date

- Established the CQA facilities
 - GDIT's program management office facility open at the Navy Yard, Washington D.C.
 - Telephone contact centers for 2017 Census Test open (Jacksonville, FL and Sandy, UT)
- Hiring complete and all vacancies filled in the GDIT program management office
- Completed the Facility Security Level (FSL) certifications for the CQA facilities
- Developed a significant portion of the required CQA standard operating procedures used to manage and implement the 2017 CQA operation
- Developed the initial system build supporting the 2017 CQA operation
- Demonstrated various contact center system tools to key stakeholders
 - Agent Desktop
 - Interactive Voice Response (IVR)
 - Speech and text analytics
 - Workforce Management
 - Management Reporting System

Census Questionnaire Assistance

Key Milestones

Milestone	Date	Status
Release the Request for Proposal for 2020 Census Questionnaire Assistance acquisition	January 2016	Complete
Award contract for 2020 Census Questionnaire Assistance support	July 2016	Complete
Conduct 2020 Census Questionnaire Assistance (CQA) kick-off meeting between the CQA program management office and the CQA contractor	July 2016	Complete
Release the initial 2020 Census Detailed Operational Plan	September 2016	Complete
Conduct Census Questionnaire Assistance operation in the 2017 Census Test	March 2017 – May 2017	In Planning and Development
Conduct 2018 End-to-End Census Test Planning and Design	April 2017-July 2017	Tentative, Not Started
Conduct 2018 End-to-End Census Test Development, Configuration, and Testing	July 2017-TBD	Tentative, Not Started
Conduct Census Questionnaire Assistance operation in the 2018 End-to-End Census Test	March 2018 – August 2018	Not Started

Questions?

2020 Census Systems Readiness

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2020 Census Systems Readiness

Agenda

2017 Census Test Solution Architecture

Status of Systems Supporting the 2017 Census Test

2018 End-To-End Census Test Solution Architecture

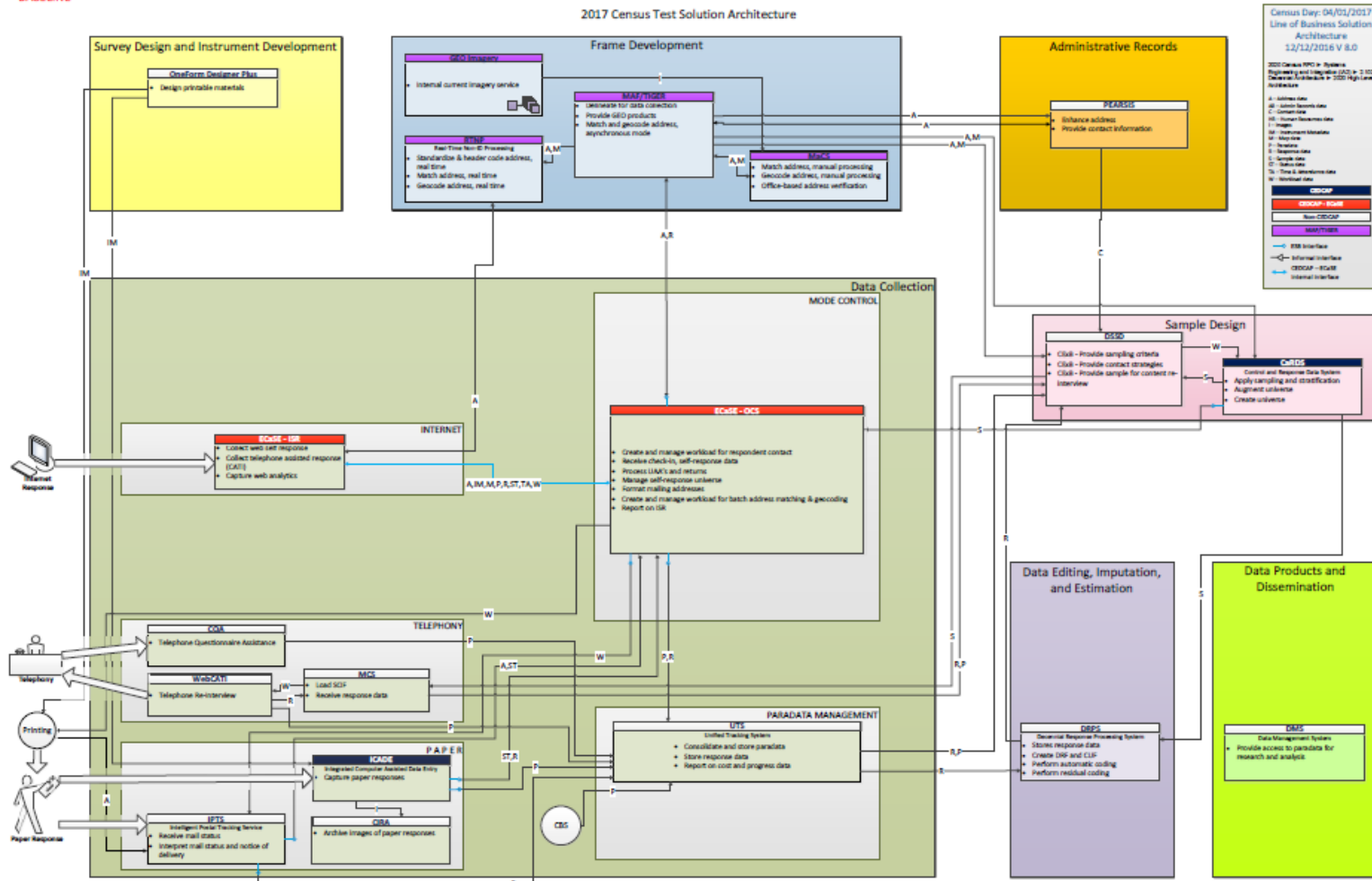
Status of Systems Supporting the 2018 End-To-End Census Test

Demo of Internet Self Response (ISR) System

2020 Census Systems Readiness

2017 Census Test Solution Architecture

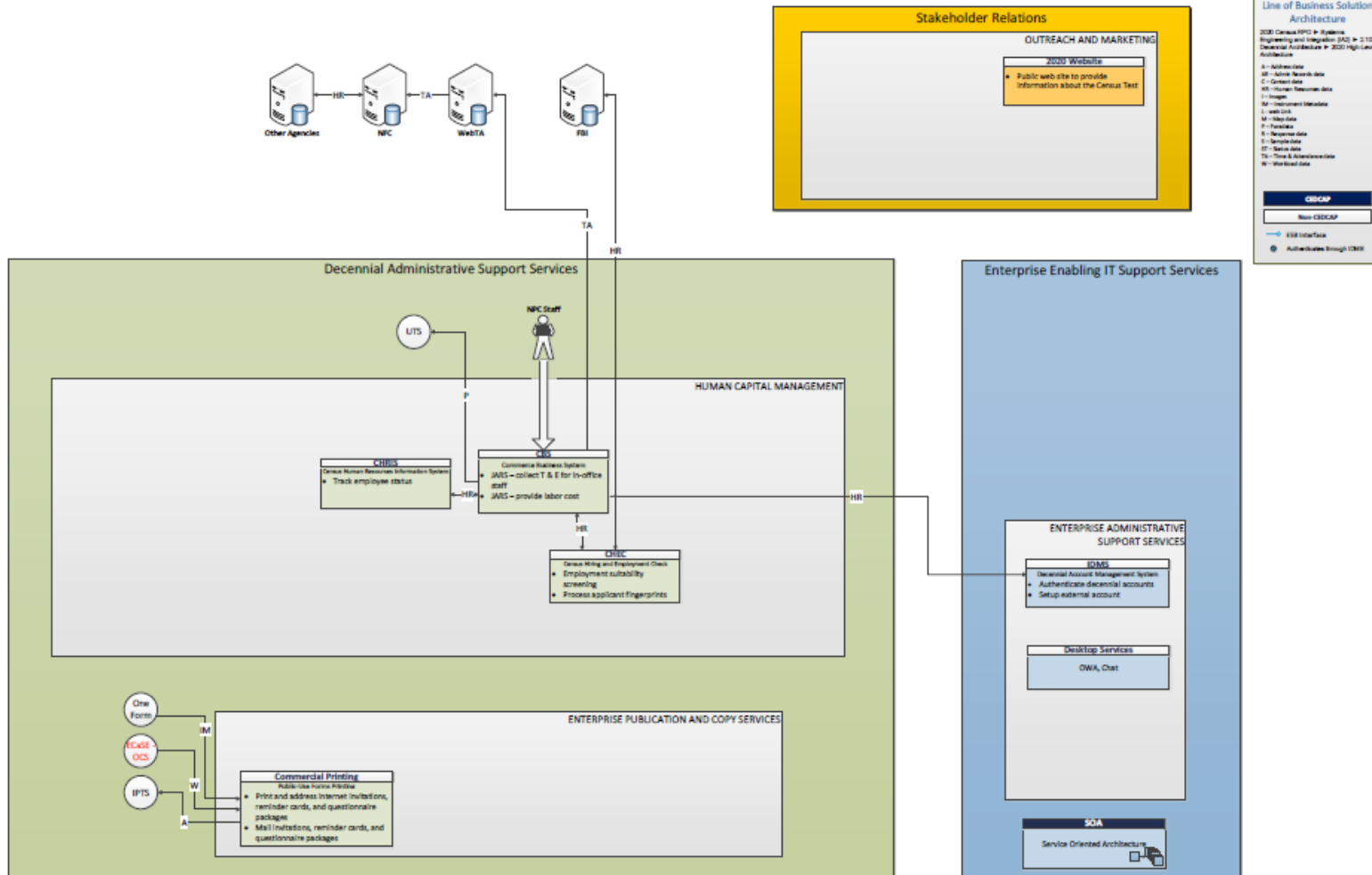
BASELINE



2020 Census Systems Readiness

2017 Census Test Solution Architecture (continued)

BASELINE



2020 Census Systems Readiness

2017 Census Test Systems

System	Key Efforts/Updates required for 2017 Census Test
2020 Website	Enhance and deploy in support of the 2017 Census Test IPC operation.
One Form Designer Plus	As-Is system, no functionality updates are required for its 2017 baseline scope.
IPTS (Intelligent Postal Tracking System)	Deploy with appropriate interfaces in support of the 2017 Census Test Self-Response operation.
DSSD	Develop and deploy in support of the 2017 Census Test Self-Response operation.
MAF/TIGER (Master Address File/Topologically Integrated Geographic Encoding and Referencing Database)	Create and deliver address list for sampling. Provide geospatial services for response processing.
RTNP (Real Time Non-ID Processing)	Verify cloud deployment in the production environment in support of the non-id self-response operation.

2020 Census Systems Readiness

2017 Census Test Systems (continued)

System	Key Efforts/Updates required for 2017 Census Test
CQA (Census Questionnaire Assistance)	Complete testing of the interfaces with 2017 Census Test systems and deploy in support of the Self-Response operation.
MaCS (Matching and Coding Software)	Finalize and test the developed capabilities and deploy in support of the non-id processing operation.
GEO Imagery	As-Is system, no functionality updates are required for its 2017 baseline scope.
DRPS (Decennial Response Processing System)	Finalize and test the developed capabilities and deploy in support of response processing operation. Achieved ATO for the 2017 Census Test.
Web-CATI, MCS	As-Is system. Support telephony-based Coverage Re-interview.
PEARSIS (Production Environment for Administrative Records Staging, Integration and Storage)	Test the developed capabilities and deploy in support of response processing operation.
UTS (Unified Tracking System)	Complete the development of reports and enhancements, and deploy in support of 2017 Census Test.

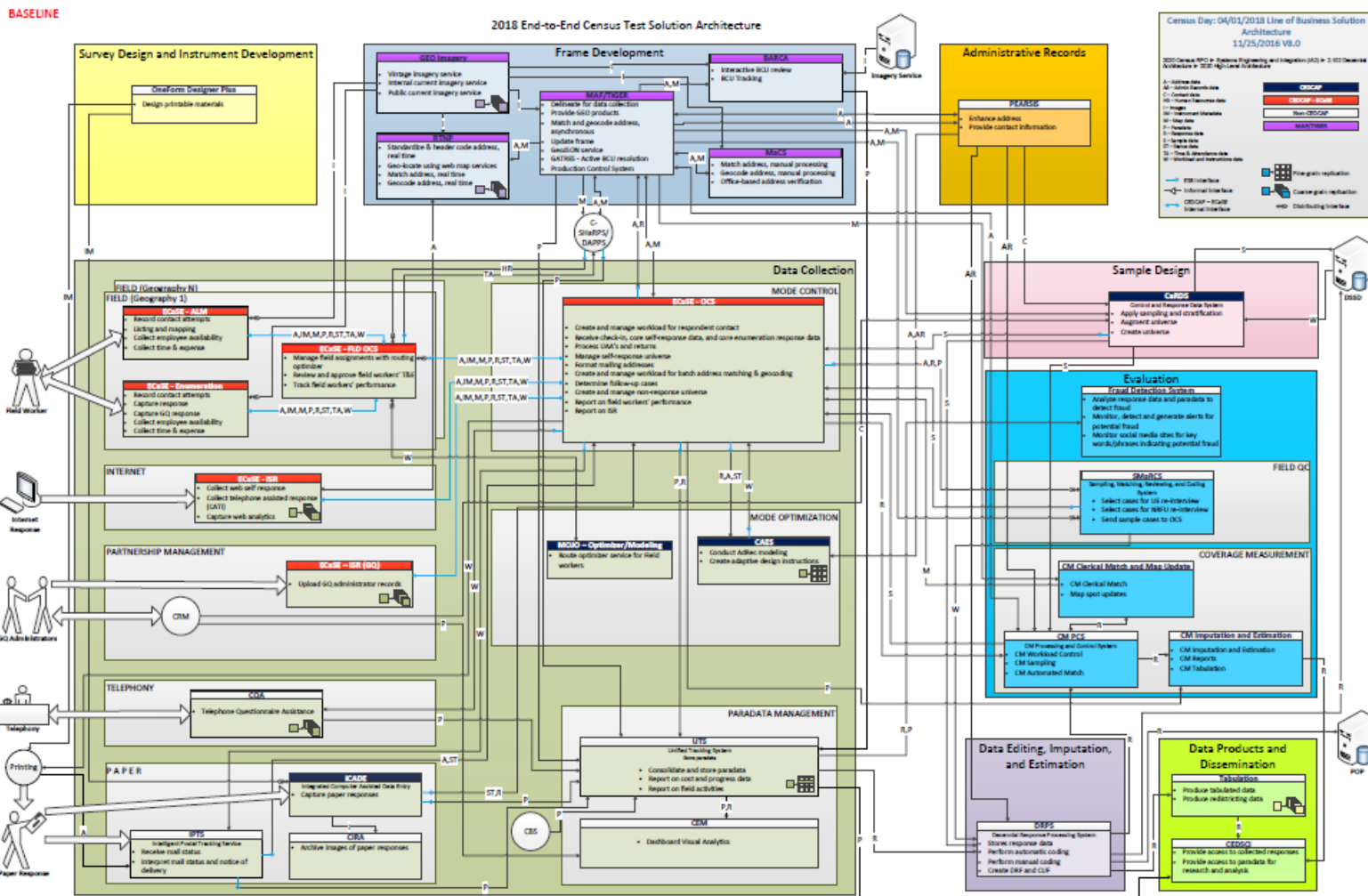
2020 Census Systems Readiness

2017 Census Test Support Systems

System	Key Efforts/Updates required for 2017 Census Test
CBS (Commerce Business System)	As-Is system, no functionality updates are required for its 2017 baseline scope.
CHEC (Census Hiring and Employment Check System)	As-Is system, no functionality updates are required for its 2017 baseline scope.
CHRIS (Census Human Resources Information System)	As-Is system, no functionality updates are required for its 2017 baseline scope.
CIRA (Census Image Retrieval Application)	As-Is system, no functionality updates are required for its 2017 baseline scope.
Commercial Printing	Awarded to a GSA vendor. Develop interface with 2017 Census Test systems. Achieve ATO.
IDMS (Identity Management System)	As-Is system, no functionality updates are required for its 2017 baseline scope.
DMS (Data Management System)	As-Is system, no functionality updates are required for its 2017 baseline scope.
Desktop Services	As-Is system, no functionality updates are required for its 2017 baseline scope.

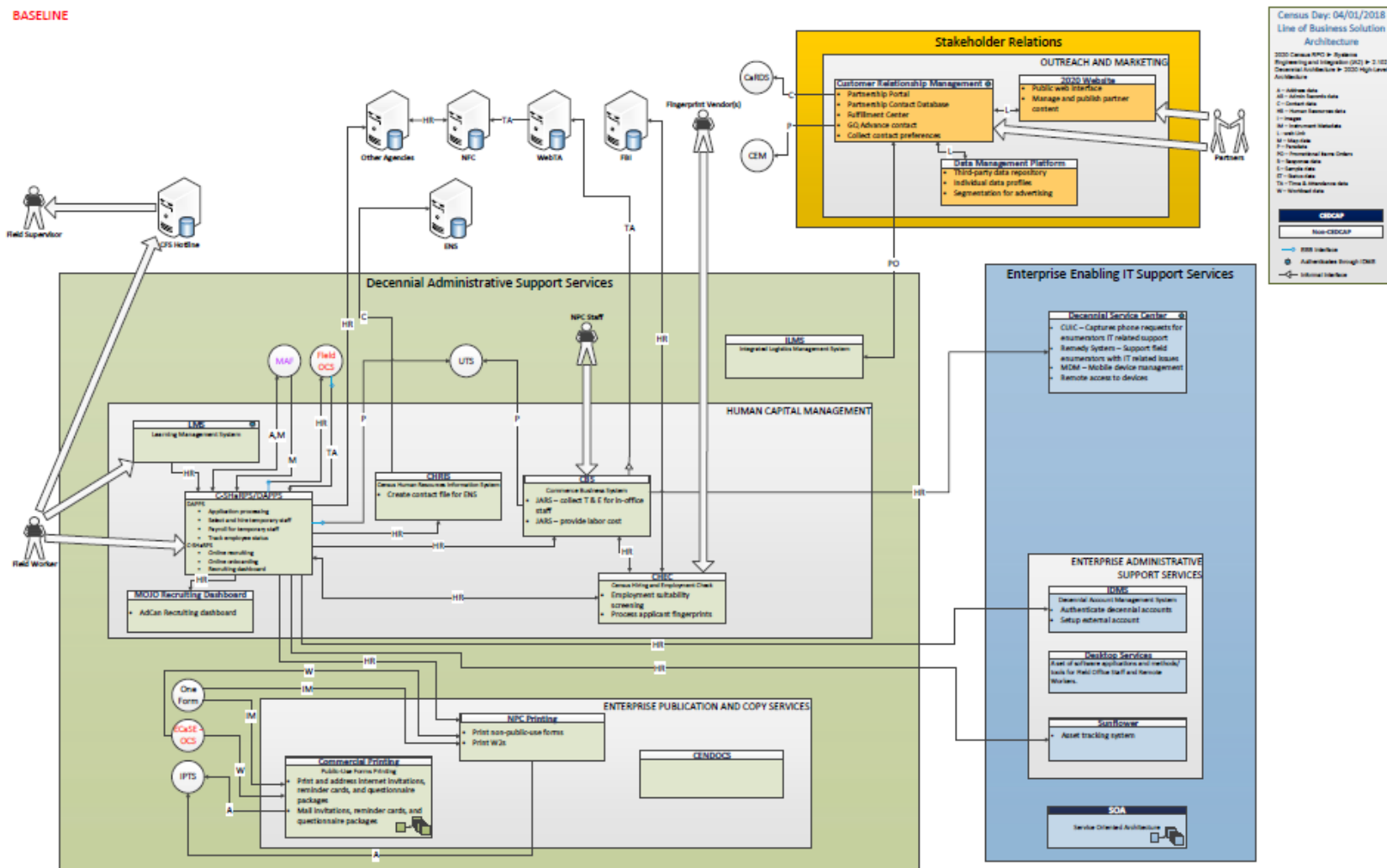
2020 Census Systems Readiness

2018 End-To-End Census Test Solution Architecture



2018 End-To-End Census Test Solution Architecture (continued)

BASELINE



2020 Census Systems Readiness

2018 End-to-End Census Test Systems

System	Key Efforts/Updates required for 2018/2020
2020 Website	Develop enhancements and deploy in support of the 2018 End-to-End Census Test IPC operation. Possible scalability updates are required to support 2020.
CEDSCI (Center for Enterprise Dissemination Services and Consumer Innovation)	Establish interfaces with 2018 End-to-End Census Test. Continue development and test of functionality.
CEM (Customer Experience Management)	Develop enhancements and deploy in support of the 2018 End-to-End Census Test IPC operation. Possible scalability updates are required to support 2020.
CM Clerical Match and Map (Coverage Measurement – Clerical Matching System and Map Update)	Develop, test and deploy functionality in support of 2018 End-to-End Census Test Coverage Measurement (CM) operation.
CM Imputation and Estimation (Coverage Measurement – Imputation and Estimation System)	Develop, test and deploy functionality in support of 2018 End-to-End Census Test Coverage Measurement (CM) operation.
CM PCS (Coverage Measurement – Processing and Control System)	Develop, test and deploy functionality in support of 2018 End-to-End Census Test Coverage Measurement (CM) operation.
CRM (Customer Relationship Management)	Update platform and develop enhancements. Deploy in support of 2018 End-to-End Census Test IPC operation. Possible scalability updates are required to support 2020.

2020 Census Systems Readiness

2018 End-to-End Census Test Systems (continued)

System	Key Efforts/Updates required for 2018/2020
CQA (Census Questionnaire Assistance)	Establish interfaces with 2018 End-to-End Census Test systems. Develop and deploy in support of the 2018 End-to-End Census Test Self-Response operation. Scalability updates are required to support 2020 Census.
C-SHaRPS (Census Schedule A Hiring, Recruiting and Payroll System)	Develop and deploy for 2018 End-to-End Census Test. C-SHaRPS contract awarded October 2016.
DAPPS (Decennial Applicant, Personnel and Payroll Systems)	Develop and deploy interface with C-SHaRPS for 2018 End-to-End Census Test. Enumeration Recruiting Release and Benefits implementation is complete. DAPPS is supporting 2018 End-to-End Census Test Recruiting.
IPTS (Intelligent Postal Tracking System)	Technical Integrator completed IPTS assessment and provided recommendations for 2018/2020 postal-tracking solution.
LMS (Learning Management System)	Leveraged existing C-SHaRPS BPA and acquisition is underway. LMS contract expected to be awarded March 2017.
MAF/TIGER (Master Address File/Topologically Integrated Geographic Encoding and Referencing Database)	Develop and deploy collection geographies. Provide address and geospatial services for all operations. Initial geography for the 2018 End-to-End Census Test is deployed.

2020 Census Systems Readiness

2018 End-to-End Census Test Systems (continued)

System	Key Efforts/Updates are required for 2018/2020
DRPS (Decennial Response Processing System)	Develop enhancements and deploy in support of response processing operation. Scalability updates are required to support 2020 Census.
MOJO (Recruiting Dashboard)	As-Is system. Deploy for 2018 End-to-End Census Test recruiting effort.
PEARSIS (Production Environment for Administrative Records Staging, Integration and Storage)	Continue development, test and deploy in support of 2018 End-to-End Census Test.
RTNP (Real Time Non-ID Processing)	Verify cloud deployment in the production environment in support of the self-response operation. Scalability updates are required to support 2020 Census.
SMaRCS (Sampling, Matching, Reviewing, and Coding System)	Develop enhancements and deploy in support of the 2018 End-to-End Census Test operation.
Tabulation (Decennial Tabulation System)	Establish interface with 2018 End-to-End Census Test systems, develop and deploy enhancements required to support the 2018 End-to-End Census Test. Completed initial test using 2010 data/volumes.
UTS (Unified Tracking System)	Develop scalability enhancements and deploy in support of 2018 End-to-End Census Test.

2020 Census Systems Readiness

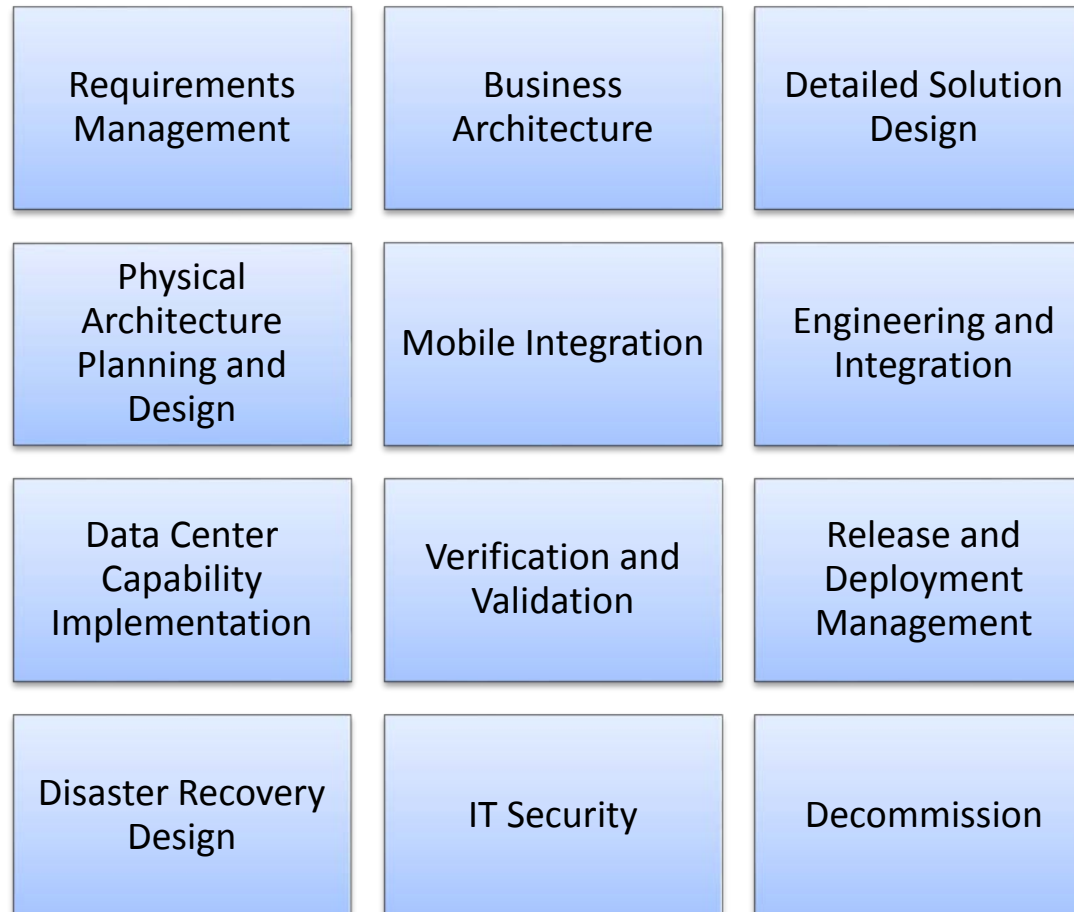
2018 End-To-End Census Test Support Systems

System	Key Efforts/Updates required for 2018/2020
CBS (Commercial Business System)	As-Is system, no functionality updates are required for its 2018/2020 baseline scope. Some updates may be required when interfacing systems (such as DAPPS) migrate to the cloud.
CENDOCs (Census Document System)	As-Is system, no functionality updates are required for its 2018/2020 baseline scope.
CHEC (Census Hiring and Employment Check System)	Third party vendor interface needs to be implemented once the fingerprinting contract is awarded. Scalability updates are required to support 2020 Census.
CHRIS (Census Human Resources Information System)	As-Is system, no functionality updates are required for 2018/2020 baseline scope. Some updates may be required when interfacing systems (such as DAPPS) migrate to the cloud.
CIRA (Census Image Retrieval Application)	As-Is system, no functionality updates are required for its 2018/2020 baseline scope. Scalability updates are required to support 2020 Census.
Commercial Printing	Award to a GSA vendor. Develop interface with 2018 End-to-End Census Test systems.
IDMS (Identity Management System)	As-Is system, no functionality updates are required for its 2018/2020 baseline scope. Scalability updates are required to support 2020 Census. Integrate with TI environment.
ILMS (Integrated Logistics Management System)	Finalize baseline scope. Develop interface with 2018 End-to-End Census Test systems in support of IPC. Possible scalability updates are required to support 2020.
NPC Printing (Printing at the National Processing Center)	As-Is system, no functionality updates are required for its 2018/2020 baseline scope.
Sunflower	As-Is system, no functionality updates are required for its 2018/2020 baseline scope.

2020 Census Systems Readiness

2020 Census Technical Integrator (TI) Contract

The Technical Integration contract provides for services in the following areas:



2020 Census Systems Readiness

Team T-Rex

Company



Capabilities

Decennial Experts Intimate with 2020 Census: Large data capture system experience from six national censuses and comprehensive understanding of 2020 Program Requirements.



Experienced Innovators: CTA partner and large IT-centric performance of mission-critical enterprise survey data capture and dissemination systems.



Decennial Experts & Experienced Innovators: Prime contractor for six national censuses, great depth and 26,000 highly skilled IT professionals



Experienced Innovators, Pega and Security Experts: Innovated and simplified the technical plumbing of HealthCare.gov; deployed security infrastructure in AWS Cloud; 1,259 PEGA certified specialists ready to assist



Decennial Experts & Deployment Specialists: Experience from two Decennial Censuses in the areas of infrastructure deployment, system operations, and telephony.



Decennial Experts Intimate with 2020 Census: Six national censuses and comprehensive understanding of 2020 Census program gained from Census SE&I MSS Prime Contract.



Census SME Experts: Specializes in technical writing, development, and enterprise infrastructure architecture for the USCB



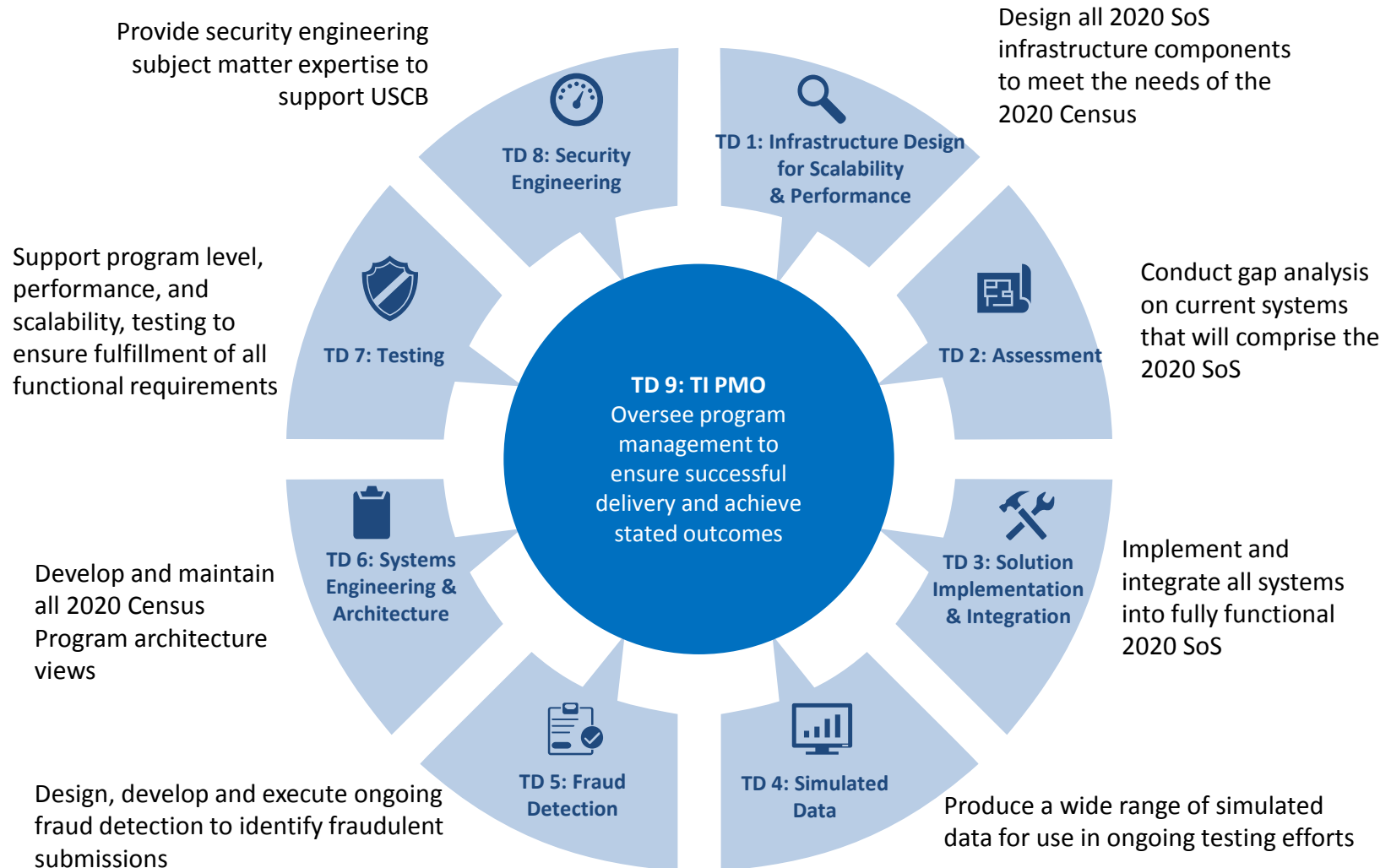
Decennial Experts Intimate with 2020 Census: Experience from six national censuses and experts in Integration and Test of multi-mode census systems.



Census Experts: Long-term partner to USCB providing IT and systems integration services to ECON and ADIT.

2020 Census Systems Readiness

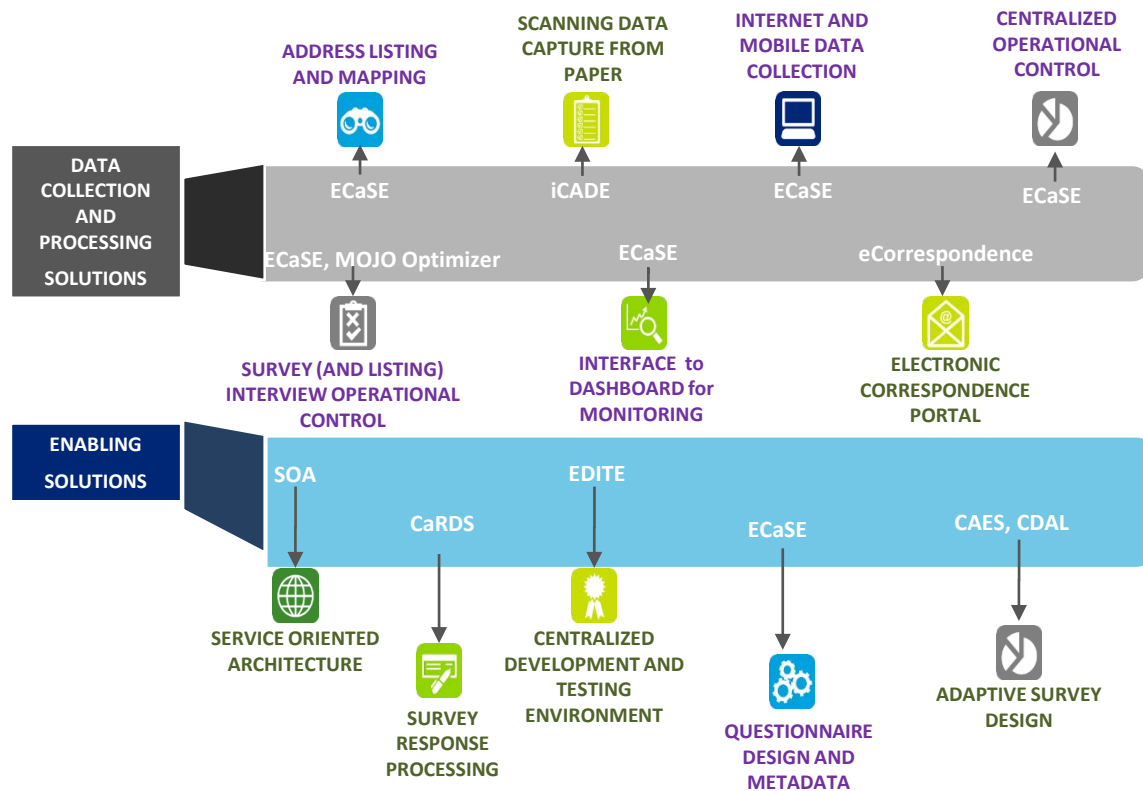
Overview of 2020 Census TI Technical Directives



2020 Census Systems Readiness

Census Enterprise Data Collection and Processing (CEDCaP) Capabilities and Solutions

CEDCaP is comprised of delivery of enterprise capabilities and the solutions to provide those capabilities.



Census Enterprise Data Collection & Processing (CEDCaP)

CEDCaP Data Collection & Processing Capabilities and Solutions Delivered:	
CEDCaP Capability	CEDCaP Solution
1) Centralized Development and Testing Environment to CEDCaP projects	Enterprise Development, Integration, & Test Environment (EDITE)
2) Service Oriented Architecture for CEDCaP projects (i.e., common infrastructure and efficient system interfaces to allow IT applications to communicate without the need for costly system re-writes)	Application Programming Interface (API) Infrastructure (API-I)
3) Centralized Operational Analysis and Control and Adaptive Survey Design capability, including statistical modeling and administrative records	ECaSE Operational Control System Census-Data Access Layer (C-DAL) Concurrent Analysis and Estimation System (CAES)
4) Survey (and Listing) Interview Operational Control	ECaSE Operational Control System MOJO Optimizer
5) Address Listing and Mapping	ECaSE Address Listing Mapping
6) Interface to the Dashboard for Monitoring Survey Cost, Progress, and Quality and Enterprise Paradata Repository	ECaSE
7) Questionnaire Design and Metadata	ECaSE- Questionnaire Design Metadata
8) Internet and Mobile Data Collection	ECaSE Internet Self Response ECaSE – Enumeration
9) Electronic Correspondence Portal	eCorrespondence
10) Scanning Data Capture from Paper	Integrated Computer Assisted Data Entry (iCADE)
11) Survey Response Processing	CARDS (Pre-data collection, TBD) (Post-data collection processing)

Capabilities shown in purple will be provided by the Enterprise Censuses and Surveys Enabling (ECaSE) Platform

2020 Census Systems Readiness

CEDCaP Systems

CEDCaP System	Key Efforts/Updates required for 2018/2020
CaRDS (Control and Response Data System) (2017 Census Test and 2018 End-to-End Test)	Develop enhancements to functionality that supported the 2015 and 2016 Census Tests. Deploy in support of Census Universe Creation for 2017 Census Test and 2018 End-to-End Census Test. Scalability updates are required to support 2020.
iCADE (Integrated Computer Assisted Data Entry System) (2017 Census Test and 2018 End-to-End Test)	Develop enhancements to legacy system that supports current surveys and the 2015 and 2016 Census test. Deploy in support of paper data capture operation for 2017 Census test and 2018 End-to-End Census Test. Scalability updates are required to support 2020.
SOA (Service Oriented Architecture) (2017 Census Test and 2018 End-to-End Test)	Develop enhancements to production system to support interfaces between ECaSE in the Cloud and those systems not in the Cloud.
ECaSE (Enterprise Censuses and Surveys Enabling) (2017 Census Test and 2018 End-to-End Test)	Complete the configuration of Internet Self-Response and Operational Control functionality to support the 2017 Census Test and Address Listing and Enumeration instruments for the 2018 End-to-End Census Test. Scalability updates are required to support 2020.
CAES (Concurrent Analysis and Estimation) (2018 End-to-End Test)	Conduct tests, finalize 2020 Census models that will run on CAES, and obtain an ATO in order to support the 2018 End-to-End Census Test.

Internet Self-Response Demonstration

Questions?